

Listing of Claims:

Claim 1 (original): A method for operating a node in a label switched network, said method comprising:

receiving a request to establish a proposed label switched path through said node;

determining that a bandwidth requirement of said proposed label switched path cannot currently be met;

after receiving said request and prior to expiration of a time period, receiving information from one or more downstream nodes along said proposed label switched path identifying one or more currently configured label switched paths that have been preempted downstream; and

after expiration of said time period, selecting one or more label switched paths to preempt from among currently configured label switched paths, said selecting being based at least in part on said received information.

Claim 2 (original): The method of claim 1 further comprising:

determining said time period responsive to a number of hops between said node and a destination of said proposed label switched path.

Claim 3 (original): The method of claim 1 further comprising:

sending a message indicating acceptance of said proposed label switched path prior to expiration of said time period.

Claim 4 (original): The method of claim 1 wherein said selecting favors local preemption of said currently configured label switched paths that have been preempted downstream

Claim 5 (original): The method of claim 1 wherein said one or more label switched paths selected for preemption have a lower priority than said proposed label switched path.

Claim 6 (original): A computer program product for operating a node in a label switched network, said computer program product comprising:

- code that receives a request to establish a proposed label switched path through said node;

- code that determines that a bandwidth requirement of said proposed label switched path cannot currently be met;

- code that, after receiving said request and prior to expiration of a time period, receives information from one or more downstream nodes along said proposed label switched path identifying one or more currently configured label switched paths that have been preempted downstream;

- code that, after expiration of said time period, selects one or more label switched paths to preempt from among currently configured label switched paths, said selecting being based at least in part on said received information; and

- a storage medium for storing the codes.

Claim 7 (original): The computer program of claim 6 further comprising:

- code that determines said time period responsive to a number of hops between said node and a destination of said proposed label switched path.

Claim 8 (original): The computer program product of claim 6 further comprising:

code that sends a message indicating acceptance of said proposed label switched path prior to expiration of said time period.

Claim 9 (original): The computer program product of claim 6 wherein said code that selects favors local preemption of said currently configured label switched paths that have been preempted downstream

Claim 10 (original): The computer program product of claim 6 wherein said one or more label switched paths selected for preemption have a lower priority than said proposed label switched path.

Claim 11 (original): Apparatus for operating a node in a label switched network, said apparatus comprising:

means for receiving a request to establish a proposed label switched path through said node;

means for determining that a bandwidth requirement of said proposed label switched path cannot currently be met;

means for, after receiving said request and prior to expiration of a time period, receiving information from one or more downstream nodes along said proposed label switched path identifying one or more currently configured label switched paths that have been preempted downstream; and

means for, after expiration of said time period, selecting one or more label switched paths to preempt from among currently configured label switched paths, said selecting being based at least in part on said received information.

Claim 12 (original): The apparatus of claim 11 further comprising:

means for determining said time period responsive to a number of hops between said node and a destination of said proposed label switched path.

Claim 13 (original): The apparatus of claim 11 further comprising:

means for sending a message indicating acceptance of said proposed label switched path prior to expiration of said time period.

Claim 14 (original): The apparatus of claim 11 wherein said means for selecting favors local preemption of said currently configured label switched paths that have been preempted downstream

Claim 15 (original): The apparatus of claim 11 wherein said one or more label switched paths selected for preemption have a lower priority than said proposed label switched path.

Claim 16 (original): Apparatus for operating a node in a label switched network, said apparatus comprising:

a processor; and

a memory device storing instructions for execution by said processor, said instructions comprising:

code that receives a request to establish a proposed label switched path through said node;

code that determines that a bandwidth requirement of said proposed label switched path cannot currently be met;

code that, after receiving said request and prior to expiration of a time period, receives information from one or more downstream nodes along said proposed label switched path identifying one or more currently configured label switched paths that have been preempted downstream; and

code that, after expiration of said time period, selects one or more label switched paths to preempt from among currently configured label switched paths, said selecting being based at least in part on said received information.

Claim 17 (original): The apparatus of claim 16 wherein said instructions further comprise:

code that determines said time period responsive to a number of hops between said node and a destination of said proposed label switched path.

Claim 18 (original): The apparatus of claim 16 wherein said instructions further comprise:

code that sends a message indicating acceptance of said proposed label switched path prior to expiration of said time period.

Claim 19 (original): The apparatus of claim 16 wherein said code that selects favors local preemption of said currently configured label switched paths that have been preempted downstream

Claim 20 (original): The apparatus of claim 16 wherein said one or more label switched paths selected for preemption have a lower priority than said proposed label switched path.